

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Claim Listing:

1. (Currently Amended) A method for a user equipment (UE) to transmit a data field of symbols comprising the steps of:

generating a first data field of symbols;

encoding said first data field producing a second data field having complex conjugates of the symbols of said first data field;

spreading said first and second data fields, wherein said first data field is spread using a first channelization code that is uniquely associated with a first antenna and said second data field is spread using a second channelization code, ~~each channelization code being~~ that is uniquely associated with ~~one of a first and second antennas~~ antenna; and

transmitting an RF signal including said first and second spread data fields over ~~[[a]]~~ the first and second ~~antenna~~ antennas.

2. (Original) The method of claim 1 further comprising the step of scrambling said first and second spread data fields by a scrambling code associated with said UE.

3. (Original) The method of claim 2 wherein the symbols of said first data field of symbols are grouped into a first and second sub-data field.

4. (Original) The method of claim 3, wherein the symbols of said second data field of symbols are grouped into a third and fourth sub-data field, wherein said third sub-data field is the negative complex conjugate of said second sub-data field and said fourth sub-data field is the complex conjugate of said first sub-data field.

5-12 (Canceled)

13. (Currently Amended) A method for a user equipment (UE) to transmit a data field of symbols including a transmitter, the method comprising the steps of:
generating a first data field of symbols;

spreading said first data field using a first channelization code producing a first spread data field, wherein the first channelization code is uniquely associated with a first antenna;

spreading said first data field using a second channelization code producing a second spread data field, wherein the second channelization code is uniquely associated with a second antenna ~~each channelization code being uniquely associated with one of a first and second antennas; and~~

transmitting an RF signal including said first and second spread data fields over [[a]] the first and second antenna antennas.

14. (Original) The method of claim 13 further comprising the steps of scrambling said first and second spread data fields by a scrambling code associated with said transmitter.

15-18 (Canceled)